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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0604279N: <i>(U)ASE Self Protection Optimization</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	4.000	-	0.711	-	0.711	0.711	0.426	0.426	0.426	Continuing	Continuing
3308: <i>Technology Development</i>	4.000	-	0.474	-	0.474	0.474	0.189	0.189	0.189	Continuing	Continuing
3309: <i>Assault Survivability Optimization</i>	-	-	0.237	-	0.237	0.237	0.237	0.237	0.237	Continuing	Continuing

Note

This program element is a new start in FY 2012.

A. Mission Description and Budget Item Justification

This element includes development of Aircraft Survivability equipment and Electronic Warfare/Countermeasures solutions for the United States Navy, United States Marine Corps and Coalition Aircraft to include studies and evaluations of current and future aircraft threats, Modeling and Simulation for improved countermeasure capabilities, and development and testing to address new and emerging threats.

B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	4.000	-	0.711	-	0.711
Total Adjustments	4.000	-	0.711	-	0.711
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	4.000	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	0.712	-	0.712
• Rate/Misc Adjustments	-	-	-0.001	-	-0.001

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0604279N: <i>(U)ASE Self Protection Optimization</i>				PROJECT 3308: <i>Technology Development</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3308: <i>Technology Development</i>	4.000	-	0.474	-	0.474	0.474	0.189	0.189	0.189	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification
 Project Unit 3308 Technology Development: Funds efforts that focus on the quick reaction prototyping of tactical Electronic Warfare (EW)/Countermeasures solutions for increased survivability providing friendly forces the self protection necessary for successful mission accomplishment. This program directly addresses the operational requirement of multiple airborne platforms (Strike and Assault) for optimization of EW/Countermeasure solutions across the Department of the Navy. Improved countermeasure capabilities and techniques through Modeling and Simulation, validated in subsequent field testing to address new and emerging threats, capitalize upon upgrades to Aircraft Survivability Equipment systems capabilities for Strike and Assault platforms and evaluate new Radio Frequency Countermeasure (RFCM) & Infra Red Countermeasure (IRCM) technologies.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Technology Development <div style="text-align: right;">Articles:</div>	4.000 0	-	0.474 0
FY 2010 Accomplishments: Devise improved countermeasure techniques through M&S and validate candidate techniques through subsequent field testing to address new and emerging IR/RF threats, capitalize upon upgrades to ASE systems capabilities, integration and evaluate new RFCM & IRCM technologies FY 2012 Plans: Begin studies and vulnerability analysis for EW programs.			
Accomplishments/Planned Programs Subtotals	4.000	-	0.474

C. Other Program Funding Summary (\$ in Millions)
 N/A

D. Acquisition Strategy
 An EW study and vulnerability analysis will be conducted in FY 2012. The contractor and contract type will be determined as requirements evolve.

E. Performance Metrics
 Successfully award a studies and analysis contract in FY 2012.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0604279N: <i>(U)ASE Self Protection Optimization</i>				PROJECT 3309: <i>Assault Survivability Optimization</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3309: <i>Assault Survivability Optimization</i>	-	-	0.237	-	0.237	0.237	0.237	0.237	0.237	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project funds helicopter survivability evaluations of advanced Aircraft Survivability equipment for USMC, Navy, and Coalition Aircraft. The Missile Warning System (MWS), Laser Warning System (LWS), and Radar Warning Receiver (RWR) require periodic effectiveness and sustainability upgrades. Resources will be applied to the following areas:

1. Studies and Evaluations of current and future MWS/LWS/RWR Rotary aircraft threats.
2. MWS/LWS/RWR modeling techniques to support future hardware/software upgrades.
3. Evaluation of science and technology development programs in PMA-272 for transition into programs of record.
4. Evaluate sustainability enhancements as platforms migrate to Advanced Displays and Controls.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Studies & Analysis <div style="text-align: right;">Articles:</div>	-	-	0.237 0
FY 2012 Plans: Begin studies and analysis for Joint Allied Threat Awareness System (JATAS) programs.			
Accomplishments/Planned Programs Subtotals	-	-	0.237

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
MWS/LWS/RWR Rotary aircraft threat analysis will be conducted in FY 2012. The contractor and contract type will be determined as requirements evolve.

E. Performance Metrics
Successfully award a threat analysis contract in FY 2012.

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